***This is only a **preview** of the exam statements for the Training & Experience Examination. You will be asked to respond to each statement indicating how your training and experience relate to each. To take the actual exam, please refer back to the bulletin and click the link at the bottom of the bulletin.

Training and Experience Evaluation

Senior Engineering Geologist

Department of Toxic Substances Control

The California civil service selection system is merit-based and eligibility for appointment is established through a formal examination process. This examination consists of a Training and Experience evaluation used to evaluate your education, training and experience relevant to the position.

This Training and Experience evaluation is a scored component accounting for 100% of your rating in the hiring process. It is important to complete the questionnaire carefully and accurately. Your responses are subject to verification before appointment to a position.

Number of Questions: 1 – 13

To answer all the test items in this exam, you will be required to choose from among the provided answers, and to enter (type in) specific information about your experience, your education, and your formal training. Educational and work references will also be requested.

Be prepared to give specific information about the length and breadth of your work experience. Also, be prepared to provide specific information about where you received your education and training. Providing the type of education and/or formal training courses will also be necessary to complete this online examination.

Verification of References
Before a hiring decision will be made, your responses will be verified. A hiring manager or personnel staff member will contact the references you have provided to confirm job dates, experience, duties, achievements, and/or possession of knowledge, skills, and abilities. Failure to provide adequate references AND contact information may significantly limit our ability to make a job offer.

Instructions

Rate your experience performing specific job-related tasks.

Respond to each of the following statements by indicating how the statement applies to you. You are required to respond to every question and provide relevant examples. Also, indicate the references who can verify the information provided.

In responding to each statement, you may refer to your WORK EXPERIENCE, whether paid or volunteer, your EDUCATION, and/or FORMAL TRAINING COURSES you have completed.

PLEASE NOTE: This examination is designed to gain an overall assessment of your education, training, and experience as it directly relates to the duties and the knowledge, skills, and abilities required for this position. Possession of specific education is **not** required to be successful in this examination; however, such achievements may substitute for desirable levels of experience. All components of this examination have been carefully validated by tying them directly to job requirements and documenting their relevance to the position.

Tasks For Senior Engineering Geologist:

1. Using and/or evaluating models (e.g., analytical, numerical, physical) to assess or illustrate geological processes, fate and transport of contamination, and remedial approaches.

2. Evaluating sites having complex geology and multiple contaminants/impacted media, in order to identify threats to human health and the environment.

3. Evaluating remedial alternatives for sites having complex geology and multiple contaminants/impacted media to support cleanup and regulatory decisions.

4. Writing and reviewing documents (e.g., guidance documents, technical memoranda, technical reports, fact sheets, public notices, information summaries) with minimal oversight, to communicate scientific information to various audiences, and/or to support technical decisions.

5. Evaluating or peer-reviewing complex documents (e.g., memoranda, technical reports, research studies, permits, guidance documents) to assess regulatory compliance, completeness, and conformance with technical standards and/or project objectives.

6. Developing conceptual site models (CSM) for complex sites to support project objectives.

7. Analyzing data (e.g., geological, field, laboratory, chemical, photos, maps, well logs) to support site characterization, cleanup, and technical decisions.

8. Creating and analyzing technical illustrations (e.g., geologic and other maps, cross-sections, time series plots, diagrams, regression analyses).

9. Evaluating new technologies and concepts (e.g., sampling and monitoring methods, data acquisition and analysis, remedial technologies), or emerging contaminants, to improve site characterization and/or remediation.

10. Mentoring and monitoring work of team members to ensure project objectives are achieved.
11. Conducting and/or overseeing field work at complex sites to support project objectives [e.g., characterization, conceptual site model (CSM) development, testing of innovative technologies, remedy implementation].

12. Developing, delivering and reviewing presentations/trainings on technical topics to various audiences (e.g., coworkers, management, project proponents, other agencies, and the public).

13. Leading a complex technical project involving multiple parties.